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1 Representing Java classes in a typed intermediate language
[Christopher League, Zhong Shao, Valery Trifonov](#)
[September 1999 ICFP '99: Proceedings of the fourth ACM SIGPLAN international conference on functional programming](#)
Publisher: ACM
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We propose a conservative extension of the polymorphic lambda calculus (P^{omega}) as language for compiling languages with name-based class and interface hierarchies. C standard P^{omega} ; ...

Also published in:

September 1999 **SIGPLAN Notices** Volume 34 Issue 9**2 An intermediate language for source and target independent code optimization**
[Dennis J. Frailey](#)
[August 1979 SIGPLAN '79: Proceedings of the 1979 SIGPLAN symposium on Compiler construction](#)
Publisher: ACM
Full text available: [Pdf \(864.12 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)
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This paper describes an intermediate language to be generated by a syntax analyzer generator. An (essentially) optional code optimization phase may be used before code is generated. The language is designed to exclude source and ...

Also published in:

August 1979 **SIGPLAN Notices** Volume 14 Issue 8**3 FLIC—a functional language intermediate code**
[S. L. Payton Jones](#)
[August 1988 SIGPLAN Notices, Volume 23 Issue 8](#)
Publisher: ACM
Full text available: [Pdf \(1.19 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 13, Downloads (Overall): 47

FLIC is a Functional Language Intermediate Code, intended to provide a common intermediate language between diverse implementations of functional languages, including parallel ones. The definition of FLIC's syntax and semantics, ...

4 A comparison of PASCAL intermediate languages
[Philip A. Nelson](#)
[August 1979 SIGPLAN '79: Proceedings of the 1979 SIGPLAN symposium on Compiler construction](#)
Publisher: ACM

Full text available:  Pdf (380.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 24, Downloads (Overall): 25

PASCAL P-code is an aid when transporting PASCAL to new machines and environments. Using P-code may modify the P-code. This modification process may require some creation of new P-code. This effort may be eliminated by looking at previous ...

Also published in:

August 1979 **SIGPLAN Notices** Volume 14 Issue 8

5 An intermediate language for vector processors

 Abbas S. Youssefi, D. E. Stevenson

 April 1990 **ACM-SE 28**: Proceedings of the 28th annual Southeast regional conference

Publisher: ACM 

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a

6 Direct microprogrammed execution of the intermediate text from a high-level language

 Francois Robert Broca, Richard E. Merwin

 August 1974 Proceedings of the meeting on SIGPLAN/SIGMICRO interface

Publisher: ACM

Full text available:  Pdf (654.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 6, Downloads (Overall): 86, Downloads (Last 12 Months): 1

Microprogramming commonly executed operations can improve the computational speed of systems. This paper describes how microprogramming may be used to execute direct memory access generated by a high-level language compiler ...

Also published in:

August 1974 **SIGPLAN Notices** Volume 9 Issue 8

7 P-TAC: a parallel intermediate language

 Zena Ariola, Arvind

 November 1989 **FPCA '89**: Proceedings of the fourth international conference on Functional programming languages and computer architecture

Publisher: ACM 

Full text available:  Pdf (1.47 MB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 26, Downloads (Overall): 14, Downloads (Last 12 Months): 1

8 Transforming the .NET intermediate language using path logic programming

 Stephen Draper, Oege de Moor, Ganesh Sittampalam

 October 2002 **PPDP '02**: Proceedings of the 4th ACM SIGPLAN international conference on Principles and practice of declarative programming

Publisher: ACM 

Full text available:  Pdf (251.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 16, Downloads (Overall): 24, Downloads (Last 12 Months): 1

Path logic programming is a modest extension of Prolog for the specification of programs. In this paper we give an informal introduction to this extension, and we show how it can be used in compiler optimisations, and also a number of ...

Keywords: compiler optimisations, logic programming, meta programming, obfuscation, program transformation

9 Typing a multi-language intermediate code [Andrew D. Gordon, Don Syme](#) January 2001 **POPL '01: Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on programming languages****Publisher:** ACM Full text available:  [Pdf \(257.05 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 75, Downloads (Overall): 67

The Microsoft .NET Framework is a new computing architecture designed to support a wide range of applications and web-based services. .NET software components are typically distributed as Microsoft Intermediate Language, Microsoft IL, ...

Also published in:

March 2001 **SIGPLAN Notices** Volume 36 Issue 3**10 Implementing typed intermediate languages** [Zhong Shao, Christopher League, Stefan Monnier](#) January 1999 **ICFP '98: Proceedings of the third ACM SIGPLAN international conference on functional programming****Publisher:** ACM Full text available:  [Pdf \(1.50 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 26, Downloads (Overall): 27

Recent advances in compiler technology have demonstrated the benefits of using strongly typed intermediate languages to compile richly typed source languages (e.g., ML). A type-preserving compiler can guide advanced optimizations and to ...

Also published in:

January 1999 **SIGPLAN Notices** Volume 34 Issue 1**11 An aspect-oriented infrastructure for a typed, stack-based, intermediate assembly language** [Douglas R. Dechow](#) November 2002 **OOPSLA '02: Companion of the 17th annual ACM SIGPLAN conference on object-oriented, component-based, and distributed systems, languages, and applications****Publisher:** ACM Full text available:  [Pdf \(162.00 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 18, Downloads (Overall): 20

While traditional, one-dimensional approaches to the problem of separation of concerns are well known, they are often brittle and resistant to evolutionary change. Aspect-oriented languages for current software development, they are often brittle and resistant to evolutionary change. Aspect-oriented languages offer a controllable, ...

Keywords: aspect weaver, aspect-oriented programming, aspects, common intermediate language, compile-time, components, ecological modeling, preprocessors, runtime, separation of concerns

12 A single intermediate language that supports multiple implementations of exception handling [Norman Ramsey, Simon Peyton Jones](#) August 2000 **PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation****Publisher:** ACM Full text available:  [Pdf \(900.75 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 44, Downloads (Overall): 53

We present mechanisms that enable our compiler-target language, C--, to express functional programs with exception handling.

techniques for implementing exceptions, all within a single, uniform framework. We c precisely, using a formal operational semantics. ...

Also published in:

May 2000 **SIGPLAN Notices** Volume 35 Issue 5

13 An intermediate systems language for the PDP-11

 [Peter Karasz](#)

July 1977 **SIGPLAN Notices**, Volume 12 Issue 7

Publisher: ACM

Full text available:  [Pdf](#) (1.23 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 7, Downloads (Overall): 53,

In this paper we describe Version 2 of Intermediate Systems Language (ISL/V2), a g implementation language developed at the B. F. Goodrich Company. The particular in discuss here is for the PDP-11 family of minicomputers ...

14 Direct microprogrammed execution of the intermediate text from a high-level lan

 [Francois Robert Broca, Richard E. Merwin](#)

August 1973 **ACM'73: Proceedings of the annual conference**

Publisher: ACM 

Full text available:  [Pdf](#) (521.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cita](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 5, Downloads (Overall): 68,

Microprogramming commonly executed operations can improve the computational sp systems. This paper describes how microprogramming may be used to execute direct generated by a high-level language compiler ...

15 The direct execution of intermediate languages on an Eclipse computer

 [B. E. M. Cooper](#)

March 1980 **SIGMICRO Newsletter**, Volume 11 Issue 1

Publisher: ACM

Full text available:  [Pdf](#) (332.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 10, Downloads (Overall): 39

The use of intermediate languages as a convenient means of developing portable h compilers, appears to be growing. With this approach, the compiler for language A (w language A) compiles the source code into an ...

16 Intermediate language for minicomputer cross-compilation

 [Joseph K. Speetjens](#)

April 1976 **ACM-SE 14: Proceedings of the 14th annual Southeast regional conference**

Publisher: ACM 

Full text available:  [Pdf](#) (266.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 9, Downloads (Overall): 87,

With the increasing use of minicomputers, the concept of cross-compilation (source p one machine which in turn outputs object code for another machine) has become pop examines the use of an intermediate language, a ...

17 An intermediate design language and its analysis

 [Daniel Jackson](#)

November 1998 **SIGSOFT '98/ FSE-6: Proceedings of the 6th ACM SIGSOFT international Foundations of software engineering**

Publisher: ACM 

Full text available:  Pdf (901.37 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 17, Downloads (Overall): 83

A simple relational language is presented that has two desirable properties. First, it is easy to encode, fairly naturally, a variety of software design problems. Second, it is amenable to analysis. This paper explains ...

Also published in:

November 1998 **SIGSOFT Software Engineering Notes** Volume 23 Issue 6**18** Refined types: highly differentiated type systems and their use in the design of intermediate languages J. R. RoseJuly 1988 **PLDI '88: Proceedings of the ACM SIGPLAN 1988 conference on Programming language design and implementation****Publisher:** ACM Full text available:  Pdf (1.23 MB)Additional Information: [full citation](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 17, Downloads (Overall): 15

Also published in:

July 1988 **SIGPLAN Notices** Volume 23 Issue 7**19** The Mahler experience: using an intermediate language as the machine description language David W. Wall, Michael L. PowellNovember 1987 **ASPLOS-II: Proceedings of the second international conference on Architectures for parallel programming languages and operating systems****Publisher:** ACMFull text available:  Pdf (618.75 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 22, Downloads (Overall): 24

Division of a compiler into a front end and a back end that communicate via an intermediate language. This is a well-known technique. We go farther and use the intermediate language as the official language of machines with simple instruction ...

Also published in:

October 1987 **SIGPLAN Notices** Volume 22 Issue 10October 1987 **SIGOPS Operating Systems Review** Volume 21 Issue 4November 1987 **SIGARCH Computer Architecture News** Volume 15 Issue 5**20** A functional intermediate form for diverse source languages David V. MasonNovember 1996 **CASCON '96: Proceedings of the 1996 conference of the Centre for Advanced Computing and Collaborative research****Publisher:** IBM PressFull text available:  Pdf (215.24 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 10, Downloads (Overall): 15

This paper describes the use of WatIF, a simple compiler intermediate form based on writing compiler front-ends for a wide range of programming languages. Somewhat similar forms have been previously used for single-language ...

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